

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**May 1996**

**Pete Wilson**  
Governor  
State of California

**Douglas P. Wheeler**  
Secretary for Resources  
The Resources Agency

**David N. Kennedy**  
Director  
Department of Water Resources

State of California  
Resources Agency

**Department of Water Resources  
Division of Operations and Maintenance**

**State Water Project  
Operations Data**  
for the Month May 1996

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## **MONTHLY HIGHLIGHTS**

The following highlights are activities or actions that impacted State Water Project operations during the month of May 1996.

Snowpack on May 1 was about 95 percent of average. Warm weather caused rapid snowmelt during the first two weeks of May. The mid-month wet and rainy spell slowed snowmelt, although the combination of snowmelt and rain runoff generally created a peak runoff rate around May 16 and 17. More than triple the normal precipitation for the month fell in the northern Sierra. Several days of rain boosted mountain river runoff to flood levels, particularly in the central Sierra. Since reservoir storage was high, much of the inflow had to be released. At Folsom Dam, American River releases of 50,000 cfs were required on May 16. At Lake Oroville, the maximum release to the Feather River was 25,128 cfs on May 19. The extra runoff caused an unseasonable overflow at Fremont Weir into the Yolo Bypass.

Runoff during May was estimated to be nearly 150 percent of average. Statewide seasonal runoff since October 1 remains at about 125 percent.

Reservoir storage statewide remained at 120 percent of average. The storage increase during May was between 1.5 to 2 MAF in the 155 reservoirs which are monitored to bring this total storage to about 35 MAF, about 92 percent of capacity, the highest in two decades for this date. Total storage in major SWP reservoirs was about 5.0 MAF on May 31, about 360,000 AF less than the storage at this time in 1995. The State's share of San Luis Reservoir storage was about 843,000 AF compared to 1.05 MAF at this time last year. Decreases in storage resumed as summer deliveries increased. The combined storage in our southern reservoirs was 662,000 AF on May 31 compared with 693,000 AF at this time last year. Silverwood Lake was held at about 39,000 AF while the San Bernardino Tunnel intake construction proceeded.

End-of month storage at Lake Oroville was about 3.50 MAF compared to 3.52 MAF at this time last year. Nearly 85,000 AF was spilled from the Lake from the 18th to the 25th. Just over 20,000 AF was spilled throughout the month from Antelope and Frenchman Lakes. These releases allowed Lake Oroville to be filled while minimizing encroachment and avoiding potential flooding to downstream orchards and fields. The Lake topped out at elevation 899.5 feet on May 22.

The authorized combined incidental take limit for Delta smelt of 9,769 was exceeded on May 16. Consultation with USFWS was reinstated to determine the significance of the elevated salvage. It was concluded that most of the smelt are now in the far Western Delta and increased exports do not jeopardize them.

Combined exports were increased to 3,200 cfs on May 16 following a 31-day period of reduced export levels (exports limited to about 1,500 cfs to benefit juvenile salmon migrating down the San Joaquin River system). Both the SWP and the CVP increases were pumped at Banks Pumping Plant during the initial five days to comply with a ramping provision in the temporary barriers' permit. Combined exports were progressively increased at both Banks and Tracy beginning on May 21 to 10,300 cfs (6000 SWP and 4300 CVP) on May 25. Exports were maintained at this level through the end of May. SWP water deliveries for 1996 through May 31 were 712,000 AF representing a combination of annual entitlement, carryover, interruptible, and exchange waters. This is 240,000 AF more than that delivered during the same period in 1995.

Silt deposited in the Aqueduct in the San Luis Field Division by the March 1995 flooding is being removed from Pool 19 as a pilot dredging program. Dredging is progressing at a rate of about 400 feet per day with completion expected in early June.

**Table 1. Antelope Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow 1/	
				Regulated Release				Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right	Total Regulated Release					
Apr 30	5003.32	23,809										
1	5003.36	23,847	38	23	0	0	23	238				
2	5003.39	23,876	29	23	0	0	23	252				
3	5003.33	23,819	-57	23	0	0	23	245				
4	5003.28	23,771	-48	23	0	0	23	224				
5	5003.25	23,742	-29	23	0	0	23	210				
6	5003.21	23,704	-38	23	0	0	23	200				
7	5003.20	23,694	-10	23	0	0	23	191				
8	5003.17	23,666	-28	23	0	0	23	184				
9	5003.13	23,628	-38	23	0	0	23	175				
10	5003.11	23,608	-20	23	0	0	23	166				
11	5003.10	23,599	-9	23	0	0	23	161				
12	5003.11	23,608	9	23	0	0	23	161				
13	5003.11	23,608	0	23	0	0	23	163				
14	5003.13	23,628	20	23	0	0	23	166				
15	5003.21	23,704	76	23	0	0	23	181				
16	5003.62	24,098	394	23	0	0	23	275				
17	5004.05	24,514	416	23	0	0	23	450				
18	5004.00	24,466	-48	23	0	0	23	542				
19	5003.79	24,262	-204	23	0	0	23	480				
20	5003.56	24,040	-222	23	0	0	23	375				
21	5003.43	23,915	-125	23	0	0	23	275				
22	5003.29	23,780	-135	23	0	0	23	245				
23	5006.21	23,704	-76	23	0	0	23	224				
24	5003.11	23,608	-96	23	0	0	23	178				
25	5003.05	23,551	-57	23	0	0	23	156				
26	5002.98	23,485	-66	23	0	0	23	142				
27	5003.01	23,513	28	23	0	0	23	138				
28	5002.95	23,456	-57	23	0	0	23	131				
29	5002.93	23,437	-19	23	0	0	23	125				
30	5002.89	23,399	-38	23	0	0	23	119				
31	5002.87	23,380	-19	23	0	0	23	112				
TOTAL CFS-DAYS				---	713	0	0	713	6,884	154	7,751	7,535
TOTAL AC-FT.				-429	1,414	0	0	1,414	13,654	306	15,374	14,945

1/ Values not available on a daily basis.

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/			
				Stream-flow Maint.	Water Supply Contract	Water Right						
Apr 30	5588.99	57,055										
1	5588.96	57,007	-48	14	0	0	14	147				
2	5588.87	56,862	-145	14	0	0	14	143				
3	5588.95	56,991	129	14	0	0	14	143				
4	5588.92	56,942	-49	14	0	0	14	138				
5	5588.86	56,846	-96	14	0	0	14	127				
6	5588.86	56,846	0	14	0	0	14	121				
7	5588.87	56,862	16	14	0	0	14	121				
8	5588.83	56,798	-64	14	0	0	14	119				
9	5588.81	56,766	-32	14	0	0	14	112				
10	5588.77	56,702	-64	14	0	0	14	106				
11	5588.74	56,654	-48	14	0	0	14	100				
12	5588.72	56,622	-32	14	0	0	14	94				
13	5588.71	56,606	-16	14	0	0	14	92				
14	5588.74	56,654	48	14	0	0	14	92				
15	5588.81	56,766	112	14	0	0	14	104				
16	5588.92	56,942	176	14	0	0	14	121				
17	5588.97	57,023	81	14	0	0	14	138				
18	5589.00	57,071	48	14	0	0	14	147				
19	5588.97	57,023	-48	14	0	0	14	147				
20	5588.92	56,942	-81	14	0	0	14	141				
21	5588.87	56,862	-80	14	0	0	14	129				
22	5588.83	56,798	-64	14	0	0	14	119				
23	5588.78	56,718	-80	14	0	0	14	108				
24	5588.72	56,622	-96	14	0	0	14	98				
25	5588.68	56,558	-64	14	0	0	14	88				
26	5588.64	56,494	-64	14	0	0	14	81				
27	5588.62	56,462	-32	14	0	0	14	75				
28	5588.58	56,398	-64	14	0	0	14	70				
29	5588.54	56,334	-64	14	0	0	14	63				
30	5588.52	56,302	-32	14	0	0	14	58				
31	5588.50	56,270	-32	14	0	0	14	54				
TOTAL CFS-DAYS				-- -	434	0	0	434	3,396	267	4,097	3,701
TOTAL AC-FT.				-785	861	0	0	861	6,736	529	8,126	7,341

1/ Values not available on a daily basis.

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in CFS							Computed Inflow 1/	
				Regulated Release				Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract 1/	Water Right	Total Regulated Release 1/					
Apr 30	5774.09	80,754										
1	5774.07	80,675	-79	167		0		0				
2	5774.05	80,547	-128	110		0		0				
3	5774.08	80,714	167	58		0		0				
4	5774.13	80,911	197	20		0		0				
5	5774.16	81,029	118	20		0		0				
6	5774.21	81,226	197	20		0		0				
7	5774.22	81,266	40	20		0		0				
8	5774.24	81,344	78	20		0		0				
9	5774.26	81,423	79	20		0		0				
10	5774.29	81,542	119	20		0		0				
11	5774.35	81,779	237	20		0		0				
12	5774.37	81,858	79	20		0		0				
13	5774.36	81,819	-39	20		0		0				
14	5774.36	81,819	0	20		0		0				
15	5774.49	82,334	515	20		0		0				
16	5774.73	83,289	955	122		0		0				
17	5774.92	84,050	761	226		0		0				
18	5775.00	84,371	321	232		0		0				
19	5775.03	84,491	120	232		0		1				
20	5775.00	84,371	-120	232		0		0				
21	5774.96	84,210	-161	232		0		0				
22	5774.94	84,130	-80	232		0		0				
23	5774.84	83,729	-401	232		0		0				
24	5774.76	83,409	-320	232		0		0				
25	5774.70	83,169	-240	232		0		0				
26	5774.62	82,851	-318	232		0		0				
27	5774.53	82,493	-358	232		0		0				
28	5774.49	82,334	-159	153		0		0				
29	5774.45	82,175	-159	110		0		0				
30	5774.41	82,016	-159	62		0		0				
31	5774.39	81,937	-79	20		0		0				
TOTAL CFS-DAYS				---	3,588	15	0	3,603	1	638	4,242	
TOTAL AC-FT.				1,183	7,117	30	0	7,147	1	1,266	8,414	
											9,597	

1/ Values not available on a daily basis.

**Table 4. Lake Oroville**

Daily Operation  
(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow	
				Hyatt Generation 1/	Palermo Canal	Spillway Leakage 2/	Evaporation 3/	Spill	Total Outflow	Hyatt Pumpback	Computed Inflow 4/
Apr 30	880.79	3,243,172									
1	881.12	3,248,076	4,904	16,896	17	92	302	0	17,307	0	22,211
2	881.63	3,255,665	7,589	13,619	20	93	237	0	13,969	0	21,558
3	881.71	3,256,856	1,191	19,310	24	93	213	0	19,640	0	20,831
4	881.85	3,258,942	2,086	18,157	24	94	197	0	18,472	0	20,558
5	882.82	3,273,422	14,480	4,931	24	96	197	0	5,248	0	19,728
6	883.11	3,277,760	4,338	13,498	26	97	189	0	13,810	0	18,148
7	883.22	3,279,406	1,646	15,042	32	97	189	0	15,360	0	17,006
8	883.13	3,278,059	-1,347	15,536	32	97	172	0	15,837	0	14,490
9	883.17	3,278,658	599	14,536	32	97	230	0	14,895	0	15,494
10	883.13	3,278,059	-599	16,143	32	97	198	0	16,470	0	15,871
11	883.83	3,288,547	10,488	7,494	32	97	248	0	7,871	699	17,660
12	884.73	3,302,068	13,521	3,433	32	99	256	0	3,820	997	16,344
13	884.98	3,305,830	3,762	13,449	34	99	265	0	13,847	583	17,026
14	885.24	3,309,747	3,917	14,195	36	99	224	0	14,554	693	17,778
15	885.94	3,320,308	10,561	10,322	36	101	133	0	10,592	481	20,672
16	888.35	3,356,852	36,544	12,335	26	105	67	0	12,533	484	48,593
17	892.48	3,420,146	63,294	19,932	19	113	8	0	20,072	0	83,366
18	895.72	3,470,394	50,248	33,024	19	0	43	11,471	44,557	0	94,805
19	896.61	3,484,289	13,895	32,703	20	0	26	17,140	49,889	0	63,784
20	896.57	3,483,663	-626	29,035	20	0	206	16,223	45,484	0	44,858
21	897.81	3,503,086	19,423	20,925	20	0	121	4,967	26,033	0	45,456
22	899.51	3,529,838	26,752	14,220	19	0	35	4,574	18,848	0	45,600
23	899.04	3,522,428	-7,410	27,336	19	0	182	13,587	41,124	0	33,714
24	898.32	3,511,096	-11,332	27,296	19	0	259	16,033	43,607	0	32,275
25	898.41	3,512,511	1,415	26,254	19	0	259	826	27,358	0	28,773
26	898.53	3,514,399	1,888	23,111	19	123	267	0	23,520	0	25,408
27	898.91	3,520,380	5,981	20,022	19	123	216	0	20,380	0	26,361
28	898.57	3,515,028	-5,352	26,707	18	123	199	0	27,047	0	21,695
29	898.51	3,514,084	-944	22,165	18	123	173	0	22,479	0	21,535
30	898.38	3,512,040	-2,044	22,047	19	123	164	0	22,353	0	20,309
31	897.89	3,504,341	-7,699	26,153	19	123	224	0	26,519	0	18,820
<b>TOTALS</b>		261,169	579,826	745	2,404	5,699	84,821	673,495	3,937	930,727	

1/ Includes bypass flows

2/ Only occurs when Lake water elevation is greater than or equal to 813.00 and there is no spill.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation  
(in acre-feet except as noted)

Capacity: 25,120 ac-ft

**May 1996**

Date	Storage 1/	Storage Change 2/	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumpback	Thermalito Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Pumpback	
Apr 30	23,419										
1	22,905	-514	16,988	474	0	16,863	0	7	1,227	0	121
2	23,074	169	13,712	442	0	12,845	0	7	1,227	0	94
3	22,630	-444	19,403	650	0	19,284	0	7	1,234	0	28
4	24,006	1,376	18,251	500	0	16,260	0	7	1,257	0	149
5	23,866	-140	5,027	341	0	4,453	0	7	1,257	0	209
6	23,135	-731	13,595	496	0	13,685	1	7	1,261	0	132
7	23,615	480	15,139	512	0	14,056	1	7	1,256	0	149
8	23,518	-97	15,633	504	0	15,113	1	7	1,261	0	148
9	23,358	-160	14,633	436	0	14,121	1	7	1,259	0	159
10	23,528	170	16,240	504	0	15,840	1	7	1,257	0	531
11	22,959	-569	7,591	607	1,351	8,089	1	7	1,275	699	-47
12	23,277	318	3,532	393	2,482	3,862	1	7	1,264	997	42
13	22,671	-606	13,548	506	1,621	14,604	1	7	1,263	583	177
14	22,539	-132	14,294	510	1,578	14,622	1	7	1,276	693	85
15	23,046	507	10,423	504	1,365	10,165	1	7	1,281	481	150
16	22,901	-145	12,440	470	1,367	12,814	1	7	1,304	484	188
17	22,618	-283	20,045	323	0	19,480	1	7	1,522	0	359
18	22,430	-188	44,495	643	0	29,066	1	8	14,828	0	-1,423
19	22,607	177	49,843	359	0	28,960	1	8	19,965	0	-1,091
20	23,544	937	45,258	490	0	29,139	1	8	15,128	0	-535
21	23,248	-296	25,892	520	0	21,962	1	8	4,833	0	96
22	23,340	92	18,794	501	0	15,629	1	8	3,661	0	96
23	23,526	186	40,923	530	0	28,652	1	8	12,254	0	-352
24	23,438	-88	43,329	464	0	28,863	1	8	14,632	0	-377
25	23,015	-423	27,080	496	0	27,050	1	8	1,448	0	508
26	23,602	587	23,234	504	0	22,259	1	8	1,215	0	332
27	23,675	73	20,145	500	0	19,400	1	8	1,212	0	49
28	23,137	-538	26,830	510	0	26,956	1	8	1,210	0	297
29	22,931	-206	22,288	501	0	21,959	1	8	1,213	0	186
30	22,219	-712	22,170	501	0	22,333	1	8	1,217	0	176
31	22,525	306	26,276	489	0	25,514	1	8	1,213	0	277
TOTALS		-894	667,051	15,180	9,764	573,898	26	231	115,710	3,937	913

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) And Gains (+)	Total Releases To River 2/	
				Thermalito Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	River Outlet	Thermalito Pumpback			
Apr 30	130.83	34,966											
1	131.78	38,322	3,356	16,863	1,014	46	637	432	10,753	0	-625	11,980	
2	131.58	37,603	-719	12,845	1,311	34	571	482	10,752	0	-414	11,979	
3	132.46	40,812	3,209	19,284	1,684	24	543	532	12,715	0	-577	13,949	
4	132.40	40,590	-222	16,260	2,182	48	544	593	12,715	0	-401	13,972	
5	129.46	30,380	-10,210	4,453	2,579	52	641	801	10,216	0	-374	11,473	
6	129.62	30,900	520	13,685	2,717	42	692	1,142	8,213	0	-359	9,474	
7	130.23	32,920	2,020	14,056	2,817	38	720	1,601	6,745	0	-115	8,001	
8	131.15	36,080	3,160	15,113	3,015	56	801	1,980	5,733	0	-368	6,994	
9	131.96	38,974	2,894	14,121	3,233	67	831	2,261	4,742	0	-93	6,001	
10	133.06	43,070	4,096	15,840	3,352	63	859	2,380	3,750	0	-1,340	5,007	
11	132.28	40,146	-2,924	8,089	3,372	38	827	2,380	3,333	1,351	288	4,608	
12	129.97	32,052	-8,094	3,862	3,392	24	851	2,380	2,937	2,482	110	4,201	
13	131.07	35,800	3,748	14,604	3,431	10	871	2,380	2,540	1,621	-3	3,803	
14	132.23	39,962	4,162	14,622	3,412	2	861	2,321	2,143	1,578	-143	3,419	
15	132.37	40,479	517	10,165	3,392	4	851	2,261	1,741	1,365	-34	3,022	
16	133.49	44,723	4,244	12,814	3,074	3	851	1,896	1,737	1,367	358	3,041	
17	134.33	48,030	3,307	19,480	2,341	1	694	1,345	11,585	0	-207	13,107	
18	134.17	47,393	-637	29,066	1,898	0	526	849	25,787	0	-643	40,615	
19	134.01	46,760	-633	28,960	1,872	0	383	579	25,985	0	-774	45,950	
20	133.95	46,523	-237	29,139	1,833	0	284	542	25,985	0	-732	41,113	
21	133.52	44,840	-1,683	21,962	1,803	0	286	542	20,629	0	-385	25,462	
22	131.44	37,104	-7,736	15,629	1,662	14	292	540	20,431	0	-426	24,092	
23	130.93	35,312	-1,792	28,652	1,603	24	276	542	27,373	0	-626	39,627	
24	131.14	36,045	733	28,863	1,567	12	228	543	24,993	0	-787	39,625	
25	130.99	35,521	-524	27,050	1,624	0	228	541	24,596	0	-585	26,044	
26	130.31	33,190	-2,331	22,259	1,799	1	319	541	20,629	0	-1,301	21,844	
27	129.46	30,380	-2,810	19,400	2,083	7	403	541	18,725	0	-451	19,937	
28	130.56	34,038	3,658	26,956	2,559	9	528	623	18,745	0	-834	19,955	
29	130.10	32,485	-1,553	21,959	2,896	6	574	740	18,725	0	-571	19,938	
30	129.65	30,998	-1,487	22,333	2,856	7	574	837	18,745	0	-801	19,962	
31	130.69	34,483	3,485	25,514	2,817	9	574	1,053	16,702	0	-874	17,915	
<b>TOTALS</b>				<b>-483</b>	<b>573,898</b>	<b>75,190</b>	<b>641</b>	<b>18,120</b>	<b>36,180</b>	<b>420,400</b>	<b>9,764</b>	<b>-14,087</b>	<b>536,110</b>

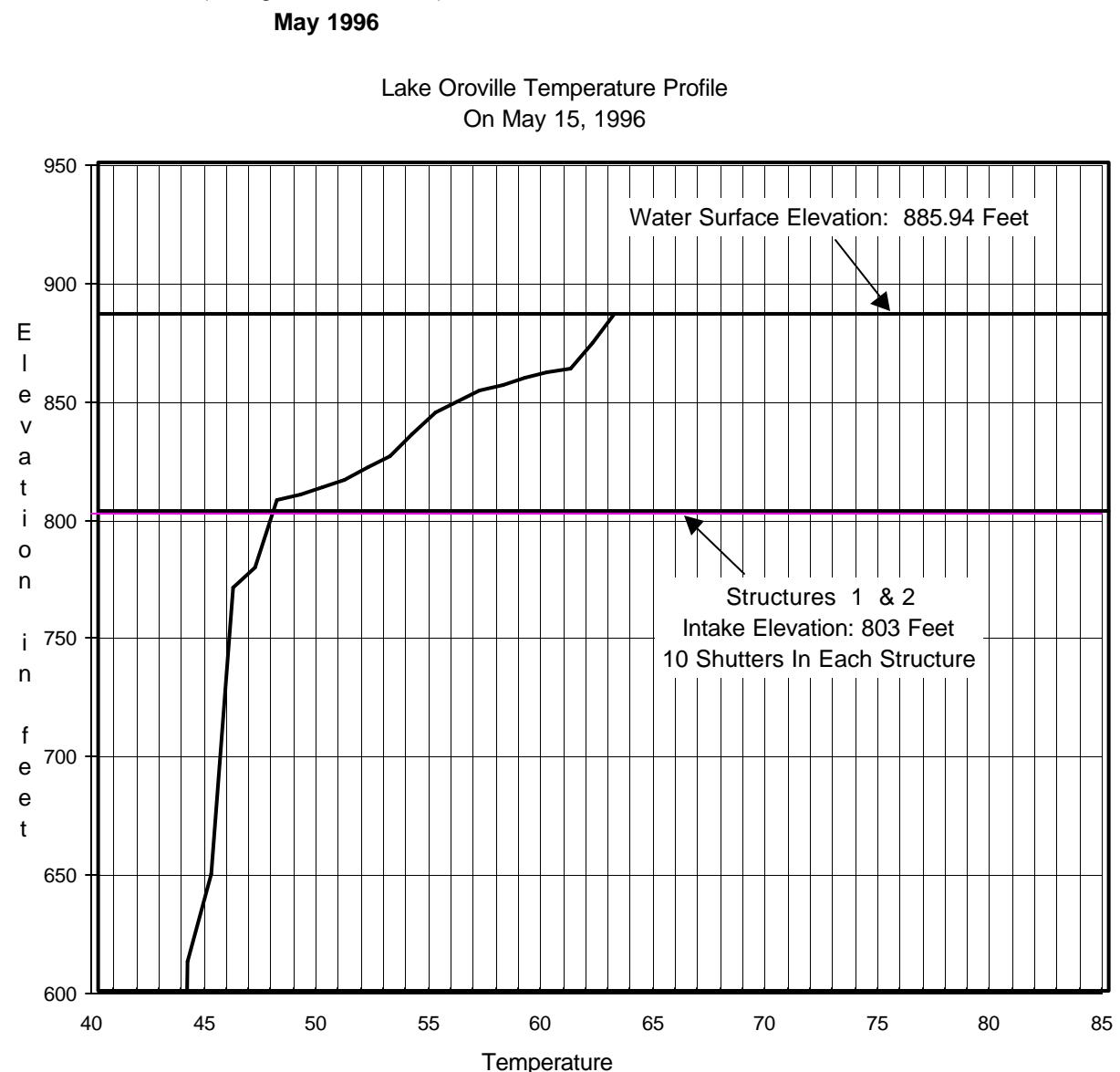
1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

Water Temperature Data  
(in degrees Fahrenheit)

Date	Mean Daily Temperature	
	Afterbay Outlet	Fish Hatchery
1	59	52
2	59	52
3	58	52
4	56	51
5	56	51
6	57	52
7	58	52
8	57	51
9	58	52
10	59	52
11	59	52
12	60	53
13	61	53
14	62	52
15	61	52
16	61	52
17	60	52
18	55	52
19	55	54
20	56	54
21	55	52
22	56	52
23	56	53
24	55	53
25	57	53
26	57	52
27	58	52
28	57	52
29	56	52
30	57	52
31	57	52



**Table 8. Aqueduct Operation**  
**Delta Field Division**  
(in acre-feet except as noted)

May 1996

NORTH BAY AQUEDUCT

Pumped at Barker Slough	4,992
Travis Turnout	272
Fairfield/Vacaville Turnout	2,000
Pumped at Cordelia	2,533
Cordelia Spillway	0
Computed Losses (-) or Gains (+)	-187
Benicia Turnout	1,353
Vallejo Turnout	1,017
American Canyon 1	159
American Canyon 2	4
Napa Treatment Plant	1
Total Deliveries (After Cordelia)	2,534
Change in Storage at Napa Terminal Tank	-1

CALIFORNIA AQUEDUCT

Amount Pumped at Banks Pumping Plant	156,749
Amount Pumped at South Bay Pumping Plant	9,554
Deliveries From California Aqueduct ( Oak Flat Water District, Tracy Golf, Veterans Cemetery, and Musco Olive)	792
Inflow into California Aqueduct	0
Change in Storage	1,482
Flow Past Check 12	140,215
Computed Losses (-) or Gains (+)	-4,706

Note: Individual pool elevation and storage changes for pools 1-12 are available at Project Operations Center.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**May 1996**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct	
	Barker Slough	Cordelia	Banks		South Bay	Del Valle Into Lake
			Total	SWP		
1	109	58	1,455	1,455	307	0
2	137	80	1,437	1,437	323	0
3	163	79	1,178	1,178	360	0
4	166	76	1,181	1,181	324	0
5	172	80	1,187	1,187	365	0
6	160	79	1,187	1,187	343	0
7	178	99	1,187	1,187	384	0
8	94	89	1,188	1,188	400	0
9	177	92	1,245	1,245	395	0
10	166	87	1,240	1,240	345	0
11	187	94	1,193	1,193	349	0
12	186	91	1,196	1,196	350	0
13	186	94	3,129	3,129	329	0
14	193	94	1,443	1,443	364	0
15	182	92	1,210	1,210	350	0
16	160	93	4,601	3,389	321	0
17	119	63	4,591	1,439	299	0
18	102	64	4,593	2,411	280	0
19	115	60	4,578	2,396	290	0
20	136	73	5,301	3,119	256	0
21	142	75	8,229	8,229	231	0
22	130	72	8,243	8,243	230	0
23	148	80	8,238	8,238	250	0
24	155	84	8,253	8,253	258	0
25	172	86	8,268	8,268	230	0
26	174	91	11,767	11,767	253	0
27	158	77	11,928	11,928	237	0
28	320	59	11,912	11,912	225	0
29	172	93	11,720	11,720	282	0
30	164	86	11,833	11,833	297	0
31	169	93	12,038	12,038	327	0
TOTAL	4,992	2,533	156,749	145,839	9,554	0

**Table 10. Clifton Court Forebay**

## Daily Operation of Gates

May 1996

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**May 1996**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		Structure			Entitle-ment	USBR	Misc.	Loan Water	1995 Carryover Ent.	
	No.	Structure	Mile								
1		Delta PP Outlet	3.32		156,749						
	1	South Bay Pumping Plant		South Bay Aqueduct	9,554						
		Check No. 1	5.95								
	2	Check No. 2	12.01								
	3		12.47	Musco Olive	22						
		Check No. 3	18.29								
2A	4		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
	5	Check No. 5	29.73								
	6	Check No. 6	34.24								
	7		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
	8		42.46	Oak Flat Water District-A	44						
			43.81	Oak Flat Water District-B	141						
			44.64	Oak Flat Water District-C	302						
		Check No. 8	45.97								
	9		46.18	Oak Flat Water District-D	279						
2B				Oak Flat Totals:	766	766	0	0	0	0	
		Check No. 9	51.30								
	10	Check No. 10	56.86								
	11	Check No. 11	61.40								
	12		66.14	Veteran's Cemetery	4						
		Check No. 12	66.71		140,215						

## **Table 12. South Bay Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**May 1996**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	1995 Carryover M&I Ent.	Local	Rec.	Drought Bank	Oper. Flood Loss		
	No.	Structure	Mile										
1	1		Granite - Vasco Rd. (Temp.)	0	22	22							
			3.17										
			3.18	Zone 7 Oakland Scavenger									
	Check No. 1	3.91											
2	3		Check No. 2	5.21	878	22							
			7.21	Zone 7 Altamont									
	Check No. 3	9.49		Zone 7 Patterson									
4	4	Check No. 4	10.68		323	18							
	5	Check No. 5	12.29										
	6		13.55	Zone 7 Wente #1									
			14.16	Zone 7 Wente #2									
			Check No. 6	14.65									
	7		14.78	Zone 7 Arroyo Mocho									
			16.38										
	8		16.57	Zone 7 Wente #3									
			16.69	Zone 7 Norman Nursery									
			16.70	Zone 7 Concannon									
			Del Valle Branch Pipeline Junction	18.63									
5	Deliveries through Del Valle Branch Pipeline			Arroyo Valle #1 & #2 Project Water	31	47				31	19		
				Arroyo Valle #1 & #2 Inflow Released									
				Lake Del Valle Recreation									
				Zone 7 Wente #5									
				So. Livermore Store Exch.	1,149								
6			19.20	So. Livermore Inflow Released	639	107				1,149	639		
				So. Livermore Inflow Exchanged	340								
				Zone 7 - Kalthrof Detjens	107								
			La Costa Tunnel	ACWD									
7				22.50	Vallecitos - Flood Release	2,416				2,416			
				25.97	City of San Francisco San Antonio								
					ACWD - Bayside 1 & 2 Project Water: Inflow Exchanged: Inflow Released:								
8	Mission Tunnel		28.97	S.C.V.W.D. Meter	0	3,887				3,887			
			35.86		0								
9	Santa Clara Pipeline				0								

**Table 13. Lake Del Valle**

Daily Operation

(in acre-feet except as noted)

**May 1996**

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/ , 3/	From South Bay Aqueduct	Arroyo Valle 3/	South Bay Aqueduct 3/	Recreation Deliveries 2/ , 3/	Evaporation	Total Outflow 3/	
Apr 30	703.12	39,999									
1	703.12	39,999	0		0				14		0.00
2	703.12	39,999	0		0				15		0.00
3	703.14	40,013	14		0				13		0.00
4	703.16	40,028	15		0				14		0.00
5	703.17	40,035	7		0				10		0.00
6	703.19	40,049	14		0				13		0.00
7	703.21	40,063	14		0				10		0.00
8	703.23	40,077	14		0				12		0.00
9	703.25	40,091	14		0				8		0.00
10	703.26	40,098	7		0				9		0.00
11	703.28	40,113	15		0				13		0.00
12	703.31	40,134	21		0				14		0.00
13	703.33	40,148	14		0				12		0.00
14	703.35	40,162	14		0				13		0.00
15	703.37	40,177	15		0				7		0.00
16	703.46	40,241	64		0				1		0.86
17	703.59	40,333	92		0				6		0.00
18	703.67	40,390	57		0				6		0.00
19	703.72	40,426	36		0				9		0.00
20	703.77	40,461	35		0				7		0.00
21	703.75	40,447	-14		0				11		0.00
22	703.71	40,419	-28		0				5		0.07
23	703.64	40,369	-50		0				5		0.00
24	703.60	40,340	-29		0				13		0.00
25	703.53	40,290	-50		0				15		0.00
26	703.48	40,255	-35		0				14		0.00
27	703.40	40,198	-57		0				12		0.00
28	703.35	40,162	-36		0				7		0.00
29	703.27	40,106	-56		0				12		0.00
30	703.21	40,063	-43		0				8		0.00
31	703.14	40,013	-50		0				11		0.00
<b>Totals</b>				14	1,020	0	0	670	19	317	1,006
0.93											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District, Zone 7, and A.C.W.D.

3/ Not available on a daily basis.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

**May 1996**

United States

State of California

Department of the Interior

The Resources Agency

Bureau of Reclamation

Department of Water Resources

Central Valley Project

State Water Project

Capacity: 56,430 Acre-feet

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pump.	Gianelli Gen.	Calif. Aq.	O'Neill Gen.	Gianelli Pump.	D.A. Pump.	Del. 2/		
Apr 30	220.34	44,036											
1	219.82	42,686	-1,350	0	0	6,024	3	348	0	6,102	21	-237	
2	218.47	39,246	-3,440	0	0	3,684	680	573	0	5,796	22	293	
3	218.98	40,533	1,287	0	0	7,714	98	714	0	5,975	22	-452	
4	220.07	43,334	2,801	0	0	7,843	312	748	0	6,169	32	206	
5	219.29	41,323	-2,011	0	0	4,598	327	759	0	5,272	32	124	
6	220.54	44,557	3,234	0	0	6,771	394	626	0	5,047	32	170	
7	220.99	45,734	1,177	0	0	6,209	380	658	0	5,469	21	152	
8	220.70	44,975	-759	0	0	6,137	399	915	0	5,741	25	-238	
9	220.76	45,132	157	0	0	7,413	447	1,240	0	6,404	20	-117	
10	221.24	46,390	1,258	0	0	8,210	410	1,460	0	6,262	20	-244	
11	221.06	45,918	-472	0	0	7,682	496	1,580	0	6,453	27	-356	
12	218.87	40,255	-5,663	0	0	4,144	283	1,628	0	5,720	22	88	
13	221.31	46,574	6,319	0	0	9,292	1,147	1,678	0	5,428	20	-127	
14	221.51	47,099	525	0	0	7,563	587	1,848	0	5,705	25	-307	
15	221.22	46,337	-762	0	0	8,170	362	2,041	0	6,333	25	-517	
16	222.09	48,624	2,287	0	0	7,274	2,140	1,792	0	6,501	25	57	
17	223.41	52,142	3,518	0	91	6,815	2,046	520	0	6,139	27	-492	
18	222.58	49,926	-2,216	0	115	2,608	2,164	0	0	5,714	27	-263	
19	220.46	44,348	-5,578	0	217	1,872	2,162	0	1,418	5,194	30	-421	
20	221.52	47,125	2,777	0	285	3,948	2,431	0	0	4,914	32	-318	
21	219.62	42,170	-4,955	0	2,046	1,721	3,695	0	3,147	6,596	31	-186	
22	220.71	45,001	2,831	0	3,614	2,305	3,987	0	2,120	5,912	35	-412	
23	220.19	43,645	-1,356	0	3,610	0	4,098	0	1,553	6,637	37	-165	
24	220.26	43,827	182	0	3,595	0	4,060	0	536	6,669	20	-338	
25	219.37	41,528	-2,299	0	3,522	0	3,551	0	1,706	6,223	37	-266	
26	220.63	44,792	3,264	0	3,544	2,296	5,745	0	3,830	6,017	20	-72	
27	219.30	41,349	-3,443	0	3,582	0	6,152	0	4,853	6,210	20	-387	
28	218.78	40,027	-1,322	0	2,912	0	5,300	0	2,317	6,797	22	258	
29	219.56	42,016	1,989	0	2,029	2,879	5,205	0	771	7,742	20	-577	
30	220.60	44,714	2,698	0	1,751	2,135	5,824	0	0	8,114	20	-216	
31	222.10	48,650	3,936	0	1,770	2,640	5,804	0	0	8,166	25	-39	
TOTAL				4,614	0	32,683	137,947	70,689	19,128	22,251	191,421	794	-5,399
MEAN CFS				---	0	1,054	4,450	2,280	617	718	6,175	26	-174
ACRE-FEET				4,614	0	64,826	273,616	140,214	37,941	44,132	379,681	1,574	-10,714

1/ Pump-in located at Mile 79.67R.

2/ Includes 102 AF delivered to DFG at O'Neill Forebay

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

May 1996

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)	Evap. (in)	Prec. (in)
				Gianelli Pump.	Gianelli Gen.	Pacheco Tunnel 1/	B.F. Sisk San Luis Dam Spill			
Apr 30	531.68	1,885,781								
1	530.69	1,873,529	-12,252	0	6,024	213	0	60	0.51	0.00
2	529.98	1,864,759	-8,770	0	3,684	282	0	-455	0.58	0.00
3	528.66	1,848,492	-16,267	0	7,714	271	0	-216	0.43	0.00
4	527.34	1,832,275	-16,217	0	7,843	271	0	-62	0.56	0.00
5	526.56	1,822,716	-9,559	0	4,598	241	0	20	0.55	0.00
6	525.38	1,808,287	-14,429	0	6,771	236	0	-268	0.53	0.00
7	524.34	1,795,602	-12,685	0	6,209	250	0	64	0.53	0.00
8	523.29	1,782,828	-12,774	0	6,137	211	0	-92	0.50	0.00
9	522.04	1,767,661	-15,167	0	7,413	185	0	-49	0.47	0.00
10	520.65	1,750,848	-16,813	0	8,210	189	0	-77	0.47	0.00
11	519.38	1,735,535	-15,313	0	7,682	184	0	146	0.45	0.00
12	518.68	1,727,114	-8,421	0	4,144	188	0	86	0.33	0.00
13	517.13	1,708,520	-18,594	0	9,292	119	0	37	0.66	0.00
14	515.85	1,693,216	-15,304	0	7,563	176	0	23	0.62	0.00
15	514.49	1,677,009	-16,207	0	8,170	229	0	228	0.40	0.00
16	513.33	1,663,227	-13,782	0	7,274	164	0	490	0.11	0.59
17	512.16	1,649,366	-13,861	0	6,815	121	0	-52	0.10	0.03
18	511.70	1,643,927	-5,439	0	2,608	112	0	-22	0.24	0.09
19	511.62	1,642,982	-945	1,418	1,872	114	0	92	0.30	0.01
20	510.91	1,634,601	-8,381	0	3,948	105	0	-172	0.45	0.00
21	511.12	1,637,078	2,477	3,147	1,721	118	0	-59	0.41	0.00
22	511.07	1,636,488	-590	2,120	2,305	125	0	13	0.27	0.02
23	511.28	1,638,967	2,479	1,553	0	0	0	-303	0.34	0.00
24	511.31	1,639,321	354	536	0	0	0	-358	0.56	0.00
25	511.53	1,641,919	2,598	1,706	0	156	0	-240	0.55	0.00
26	511.73	1,644,282	2,363	3,830	2,296	155	0	-188	0.65	0.00
27	512.44	1,652,679	8,397	4,853	0	138	0	-482	0.51	0.00
28	512.80	1,656,943	4,264	2,317	0	137	0	-30	0.37	0.00
29	512.50	1,653,390	-3,553	771	2,879	347	0	664	0.45	0.00
30	512.12	1,648,893	-4,497	0	2,135	67	0	-65	0.40	0.00
31	511.66	1,643,454	-5,439	0	2,640	34	0	-68	0.45	0.00
<b>TOTAL</b>				<b>-242,327</b>	<b>22,251</b>	<b>137,947</b>	<b>5,138</b>	<b>0</b>	<b>-1,335</b>	<b>13.75</b>
<b>MEAN CFS</b>				<b>---</b>	<b>718</b>	<b>4,450</b>	<b>166</b>	<b>0</b>	<b>-43</b>	<b>---</b>
<b>ACRE-FEET</b>				<b>-242,327</b>	<b>44,132</b>	<b>273,616</b>	<b>10,190</b>	<b>0</b>	<b>-2,653</b>	<b>---</b>

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 8,219 AF, San Benito: 1,971 AF

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**May 1996**

Date	Dos Amigos Pumping Plant		William R. Gianelli Pumping- Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/, 2/	Total Generation	SWP Generation 1/, 2/	Total Pumping	SWP Pumping 1/, 2/	Federal
1	12,103	8,354	11,948	11,948	0	0	423
2	11,496	7,861	7,308	7,308	0	0	560
3	11,851	7,466	15,301	15,301	0	0	538
4	12,236	7,589	15,556	8,077	0	0	538
5	10,457	5,773	9,121	6,522	0	0	478
6	10,011	5,384	13,430	6,011	0	0	468
7	10,848	6,249	12,315	5,454	0	0	496
8	11,387	6,880	12,172	5,485	0	0	419
9	12,702	7,603	14,704	7,415	0	0	367
10	12,421	7,289	16,285	7,111	0	0	374
11	12,800	7,622	15,238	6,665	0	0	364
12	11,346	6,027	8,220	4,952	0	0	373
13	10,766	5,623	18,430	7,713	0	0	236
14	11,316	6,343	15,001	5,009	0	0	349
15	12,561	7,566	16,205	6,587	0	0	454
16	12,895	7,831	14,427	4,856	0	0	325
17	12,177	7,070	13,518	8,461	0	0	240
18	11,334	6,290	5,172	3,493	0	0	222
19	10,302	5,344	3,713	3,713	2,813	2,813	226
20	9,747	4,883	7,831	4,787	0	0	208
21	13,083	8,023	3,414	3,414	6,242	2,365	234
22	11,726	7,820	4,571	4,571	4,205	4,205	248
23	13,164	9,093	0	0	3,080	3,080	0
24	13,228	8,154	0	0	1,063	14	0
25	12,343	7,133	0	0	3,383	-8	309
26	11,935	6,601	4,555	125	7,596	3,375	307
27	12,317	7,002	0	0	9,625	4,516	274
28	13,482	8,447	0	0	4,596	1,417	272
29	15,356	10,369	5,710	3,355	1,529	1,529	688
30	16,094	11,006	4,234	1,851	0	0	133
31	16,197	10,984	5,237	456	0	0	67
TOTAL	379,681	229,679	273,616	150,640	44,132	23,306	10,190

1/ Negative values in SWP columns indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

**May 1996**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)	Evap. (in)	Prec. (in)
					Spill	Outlet			
Apr 30	329.78	21,517							
1	329.77	21,512	-5	0	0	0	-5	0.56	0.00
2	329.75	21,502	-10	0	0	0	-10	0.65	0.00
3	329.72	21,488	-14	0	0	0	-14	0.66	0.00
4	329.71	21,483	-5	0	0	0	-5	0.49	0.00
5	329.69	21,473	-10	0	0	0	-10	0.47	0.00
6	329.67	21,464	-9	0	0	0	-9	0.47	0.00
7	329.59	21,425	-39	0	0	12	-15	0.59	0.00
8	329.44	21,353	-72	0	0	25	-22	0.53	0.00
9	329.27	21,272	-81	0	0	25	-31	0.50	0.00
10	329.19	21,234	-38	0	0	12	-14	0.45	0.00
11	329.19	21,234	0	0	0	0	0	0.47	0.00
12	329.19	21,234	0	0	0	0	0	0.50	0.00
13	329.17	21,224	-10	0	0	0	-10	0.65	0.00
14	329.14	21,210	-14	0	0	0	-14	0.56	0.00
15	329.17	21,224	14	7	0	0	0	0.41	0.00
16	329.18	21,229	5	3	0	0	-1	0.33	0.76
17	329.19	21,234	5	3	0	0	-1	0.13	0.00
18	329.17	21,224	-10	0	0	0	-10	0.25	0.00
19	329.15	21,215	-9	0	0	0	-9	0.41	0.00
20	329.14	21,210	-5	0	0	0	-5	0.41	0.00
21	329.13	21,205	-5	0	0	0	-5	0.40	0.00
22	329.11	21,196	-9	0	0	0	-9	0.28	0.02
23	329.08	21,181	-15	0	0	0	-15	0.41	0.00
24	329.06	21,172	-9	0	0	0	-9	0.56	0.00
25	329.05	21,167	-5	0	0	0	-5	0.57	0.00
26	329.01	21,148	-19	0	0	0	-19	0.61	0.00
27	329.01	21,148	0	0	0	0	0	0.50	0.00
28	328.99	21,138	-10	0	0	0	-10	0.28	0.00
29	328.96	21,124	-14	0	0	0	-14	0.48	0.00
30	328.95	21,119	-5	0	0	0	-5	0.50	0.00
31	328.93	21,110	-9	0	0	0	-9	0.47	0.00
<b>TOTAL</b>			-407	13	0	74	-285	14.55	0.78
<b>MEAN CFS</b>			---	0	0	2	---	---	---
<b>ACRE-FEET</b>			-407	26	0	148	-285	---	---

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

May 1996

United States

State of California

Department of the Interior

The Resources Agency

Bureau of Reclamation

Department of Water Resources

Central Valley Project

State Water Project

Capacity = 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Apr 30	601.40	758		2	0	2	
1	Not Observed			2	0	2	
2	Not Observed			2	0	2	
3	601.40	758	0	2	0	2	
4	Not Observed			2	0	2	
5	Not Observed			2	0	2	
6	Not Observed			2	0	2	
7	Not Observed			2	0	2	
8	Not Observed			2	0	2	
9	Not Observed			2	0	2	
10	601.40	758	0	2	0	2	
11	Not Observed			3	0	2	
12	Not Observed			3	0	2	
13	Not Observed			2	0	2	
14	Not Observed			3	0	2	
15	Not Observed			2	0	2	
16	Not Observed			3	0	2	
17	601.50	763	5	3	0	2	
18	Not Observed			2	0	2	
19	Not Observed			2	0	2	
20	Not Observed			2	0	2	
21	Not Observed			2	0	2	
22	Not Observed			2	0	2	
23	Not Observed			2	0	2	
24	601.50	763	0	5	0	5	
25	Not Observed			4	0	5	
26	Not Observed			4	0	5	
27	Not Observed			5	0	5	
28	Not Observed			4	0	5	
29	Not Observed			5	0	5	
30	Not Observed			4	0	5	
31	601.40	758	-5	3	0	4	
<b>TOTAL</b>				0	85	0	85
<b>MEAN CFS</b>				---	3	0	3
<b>ACRE-FEET</b>				0	169	0	169

1/ Not available on a daily basis

**Table 19a. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**May 1996**

Reach No.	Operating Pool			Turnout	Total Diver- sions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR	USBR		
	No.	Structure	Mile					Recreation	Recreation		
3	13	O'Neill Forebay									
		Outlet Check No. 13	70.85	Department of Fish & Game	102			56	46		
			70.91			1,472	1,472				
			Thru	San Luis Water District	1,472						
			85.08								
				SLWD Reach 3 Subtotal:	1,472	1,472	0	0	0		
4	14	Dos Amigos PP	86.73		379,681						
			89.03			5,258	5,258				
			Thru	San Luis Water District	5,258						
			94.06								
			89.66			867	867				
			Thru	Pacheco Water District	867						
			89.67								
			89.68	Panoche Water District	4	4					
			89.70	City of Dos Palos	132	132					
		Check No. 14	95.06								
4	15		98.15			565	565				
			Thru	San Luis Water District	565						
			104.20								
			96.15			6,730	6,730				
			Thru	Panoche Water District	6,730						
			102.64								
			102.64	Broadview Water District	2	2					
			105.22			16,633	16,633				
			Thru	Westlands Water District	16,633						
			108.64								
		Check No.15	108.50								
				Pacheco Water District Total:	867	867	0	0	0		
				Broadview Water District Total:	2	2	0	0	0		
				City of Dos Palos Total:	132	132	0	0	0		
				SLWD Reach 4 Subtotal:	5,823	5,823	0	0	0		
				Panoche Water District Total:	6,734	6,734	0	0	0		
				SLWD Total:	7,295	7,295	0	0	0		
				Westlands WD Reach 4 Subtotal:	16,633	16,633	0	0	0		

**Table 19b. Governor Edmund G. Brown California Aqueduct**

### San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 1996

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16		110.52			21,232	21,232				
			Thru	Westlands Water District	21,232						
			122.05								
	Check No. 16		122.07								
	17		124.18			23,528	23,528				
			Thru	Westlands Water District	23,528						
			132.74								
	Check No. 17		132.95								
	18		133.81			22,220	22,220				
			Thru	Westlands Water District	22,220						
			142.61								
		Pleasant Valley PP	143.16	Westlands Water District	17,878		17,878				
			143.16	City of Coalinga	412		412				
	Check No. 18		143.23								
				Westlands WD Reach 5 Subtotal:	84,858	84,858	0	0	0		
6	19		145.26			28,285	28,285				
			Thru	Westlands Water District	28,285						
			151.19								
	Check No. 19		155.64								
				Westlands WD Reach 6 Subtotal:	28,285	28,285	0	0	0		
7	20		156.34	City of Huron	102	102	102				
			156.40								
			Thru	Westlands Water District	11,570		11,570				
			163.69								
	Check No. 20		164.69								
	21		164.79	City of Avenal	236	236	236				
			167.04								
			Thru	Westlands Water District	6,289						
			171.67								
	Check No. 21		172.40			224,401					
				Westlands WD Reach 7 Subtotal:	18,197	18,197	0	0	0		
				Westlands WD Total:	147,635	147,635	0	0	0		
				City of Coalinga Total:	412	412	0	0	0		
				City of Huron Total:	102	102	0	0	0		
				City of Avenal Total:	236	236	0	0	0		
				Phase I Water Total:	1	1	0	0	0		
				Total Canal Diversions:	163,518	163,416	0	56	46		

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations

May 1996

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)					Computed Losses (-) Gains (+) (cfs)	Evap. (in)	PREC. (in)
			Non- Project 2/	Dos Amigos Pumping	Pump Out 3/	SLWD 4/	PWD	WWD 5/	SJFD			
Apr 30	28,744											
1	28,679	-65	0	6,102	0	109	47	2,093	3,866	-20	0.51	0.00
2	29,046	367	0	5,796	0	90	66	2,222	3,264	31	0.58	0.00
3	28,513	-533	0	5,975	0	90	66	2,234	3,572	-282	0.43	0.00
4	28,220	-293	0	6,169	1	98	102	2,227	3,378	-511	0.56	0.00
5	29,255	1,035	0	5,272	2	109	100	2,230	2,119	-190	0.55	0.00
6	28,820	-435	0	5,047	4	95	133	2,401	3,337	704	0.53	0.00
7	28,342	-478	0	5,469	4	101	107	2,286	3,663	451	0.53	0.00
8	27,477	-865	0	5,741	4	104	113	2,298	3,903	245	0.50	0.00
9	27,903	426	0	6,404	4	92	100	2,338	3,789	134	0.47	0.00
10	28,859	956	0	6,262	4	94	101	2,349	3,243	11	0.47	0.00
11	29,391	532	0	6,453	4	95	77	2,362	3,700	53	0.45	0.00
12	29,794	403	0	5,720	5	88	76	2,263	3,059	-26	0.33	0.00
13	29,899	105	0	5,428	5	143	128	2,284	2,896	81	0.66	0.00
14	28,457	-1,442	0	5,705	5	113	93	2,294	4,118	191	0.62	0.00
15	28,183	-274	0	6,333	4	115	96	2,315	4,275	334	0.40	0.00
16	28,490	307	0	6,501	5	119	121	2,311	4,085	295	0.11	0.59
17	28,717	227	0	6,139	5	123	123	2,301	3,511	39	0.10	0.03
18	28,917	200	0	5,714	5	104	148	2,255	3,051	-50	0.24	0.09
19	29,235	318	0	5,194	5	92	131	2,103	2,747	44	0.30	0.01
20	28,494	-741	0	4,914	4	151	113	2,625	3,687	1,292	0.45	0.00
21	28,505	11	19	6,596	5	98	125	2,190	4,313	121	0.41	0.00
22	28,432	-73	19	5,912	5	99	125	2,345	3,657	263	0.27	0.02
23	29,005	573	44	6,637	5	135	108	2,220	3,826	-99	0.34	0.00
24	29,608	603	45	6,669	5	134	94	2,170	4,181	175	0.56	0.00
25	29,037	-571	46	6,223	5	68	99	2,191	3,622	-571	0.55	0.00
26	28,836	-201	63	6,017	5	83	128	2,352	2,932	-682	0.65	0.00
27	28,701	-135	63	6,210	5	83	137	2,423	3,421	-272	0.51	0.00
28	28,056	-645	40	6,797	5	145	144	3,168	4,158	458	0.37	0.00
29	27,995	-61	34	7,742	5	158	147	3,196	4,610	309	0.45	0.00
30	28,288	293	60	8,114	5	155	123	3,341	4,994	591	0.40	0.00
31	28,830	542	60	8,166	2	156	124	3,424	4,157	-90	0.45	0.00
Total		86	493	191,421	122	3,439	3,395	74,811	113,134	3,029	13.75	0.74
Mean (cfs)		---	16	6,175	4	111	110	2,413	3,649	98	---	---
Acre-feet		86	975	379,681	241	6,822	6,734	148,388	224,401	6,016	---	---

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (975 AF) and Flood Water (0 AF).

3/ Dredge pump out in the Arroyo Pasajero storage area.

4/ Includes 866 AF AG & 1 AF M&I to Pacheco W.D.(866 AF is CCID non-project water) and 132 AF to the City of Dos Palos.

5/ Includes 102 AF to the City of Huron, 236 AF to the City of Avenal, 412 AF to the City of Coalinga,

1 AF Phase I Water, and 2 AF to Broadview W.D.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**May 1996**

Date	Coastal Aqueduct		California Aqueduct			
	Las Perillas	Badger Hill	Buena Vista	John R Teerink	Ira J. Chrisman	A.D. Edmonston
1	623	632	4,821	4,280	3,910	3,763
2	575	578	3,951	3,652	3,385	3,287
3	407	402	4,350	3,902	3,628	3,441
4	216	230	2,522	2,245	2,168	2,852
5	263	265	3,587	3,110	2,885	1,991
6	243	256	2,781	2,668	2,487	2,373
7	429	433	3,990	3,652	3,435	3,330
8	545	556	4,049	3,653	3,424	3,330
9	573	597	4,036	3,632	3,431	3,199
10	552	589	3,071	2,753	2,593	2,591
11	564	575	3,840	3,210	2,938	2,823
12	468	469	3,154	2,778	2,499	2,455
13	542	554	3,047	2,947	2,708	2,656
14	484	476	4,700	4,360	4,004	3,916
15	459	457	4,596	4,215	3,942	3,765
16	522	511	4,645	4,137	3,859	3,688
17	603	622	4,010	3,674	3,419	3,290
18	544	556	3,627	3,306	3,162	3,008
19	516	538	3,289	2,929	2,807	2,646
20	547	537	3,496	3,105	2,935	2,901
21	595	599	4,148	3,650	3,379	3,199
22	663	681	3,942	3,482	3,249	3,067
23	644	665	4,288	4,030	3,821	3,520
24	661	693	4,755	4,071	4,328	3,602
25	590	638	3,866	3,458	3,135	3,008
26	409	409	2,916	2,455	2,256	2,182
27	531	557	2,968	2,578	2,277	2,155
28	646	660	4,039	3,281	3,239	3,145
29	663	669	4,516	4,145	3,849	3,577
30	690	719	4,253	3,540	3,374	3,338
31	691	721	4,044	3,571	3,349	3,175
TOTAL	16,458	16,844	119,297	106,469	99,875	95,273

**Table 22a. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**May 1996**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Purchase Pool A	Interup-ta-table Ent.	USBR	Drought Bank		
	No.	Structure	Mile									
8C	21	Check No. 21	172.40		224,401							
	22		172.66	Empire West Side Irrig. Dist.								
				TL - A	0							
				Kings County								
				TL - A	100		100	28	6	1,045		
				Tulare Lake Basin WSD								
				TL - A	28							
			180.65	DRWD - 1A	6							
				DRWD - 1	1,045							
	8D		182.99	Dudley Ridge Water Dist.			1,243	2,330	2,330	0		
				DRWD - 2	1,243							
			183.00	TLB WSD TL - B	2,330							
				TLB WSD TL - C	0							
31A	8D		184.63	Coastal Branch	16,458		1,872	4,166	0	0		
9			184.78	Dudley Ridge Water Dist.								
				DRWD - 3	1,872							
				Dudley Ridge Total:	4,166							
				Tulare Lake Basin WSD Total:	2,358							
				Check No. 22	184.82							
			23	Kern County Water Agency			5,660	5,660	0	0		
				189.69	Lost Hills Water Dist. - 1							
				191.18	Kern County Water Agency							
				194.22	Lost Hills Water Dist. - 2							
				196.40	Kern County Water Agency							
				196.75	Berrenda Mesa - 2							
10A	24		201.24	Kern County Water Agency		877	877	0	0	0		
				Lost Hills Water Dist. - 7	1,915							
				202.05	Kern County Water Agency							
				Lost Hills Water Dist. - 5	3,349							
				204.69	Kern County Water Agency							
	25		205.26	Lost Hills Water Dist. - 6	0	1,437	1,437	0	0	0		
				Kern County Water Agency								
				Lost Hills Water Dist. - 8	0							
				Check No. 24	207.94							
				Kern County Water Agency								
10A	25		209.71	Belridge Water Storage Dist. - 1A	1,838	18,155	18,155	0	0	0		
				Kern National Wildlife Refuge								
				USBR BV-1B	656							
				Kern County Water Agency								
				Buena Vista WSD 1B	1,437							
			209.80	KCWA Semitropic WSD	18,155	15,452	15,452	0	0	0		
				KCWA Semitropic WSD Penstocks	15,452							
				USBR Total:	656							
				1/ K.C.W.A. Reach 10A Subtotal:	42,146							

1/ Semitropic WSD is storing 12,236 AF of this amount for MWD.

**Table 22b. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Entitlement	1995 Ent. CY-OV	Interuptable Ent.	Trans.	To Kern Co. WA	Pump Back	
	No.	Structure	Mile								
11B	25		210.75	Kern County Water Agency Belridge - 2	0	1,615					
			214.11	Kern County Water Agency Belridge - 3	1,615						
			216.62	Kern County Water Agency Belridge - 4	0						
			217.13	Kern County Water Agency Belridge - 5	9,750	9,750					
				Kern County Water Agency Belridge - 5D	108						
				K.C.W.A. Reach 11B Subtotal:	11,473	11,473	0	0	0	0	
			Check No. 25	217.79							
12D	26		219.58	Kern County Water Agency Belridge - 6	0						
			Check No. 26	224.92							
12E	27		230.37	Kern County Water Agency Buena Vista - 6	808	808					
			Check No. 27	231.73							
	28		235.75	Kern County Water Agency Buena Vista - 2	7,556	7,556 2,123					
			238.04	K.C.W.A. C.V.C.	2,123						
				Kern-Tulare W.D.	0						
				Tulare Co.	0						
				Lower Tule River	0						
				Fresno Co.	0						
				Pixley ID	0						
				Hacienda							
				DWR Wells	0						
				CVC Subtotal:	0	0 10,487	0 0	0 0	0 0	0 0	
				K.C.W.A. Reach 12E Subtotal:	10,487						
	Check No. 28	238.11									
13B	29		241.02	Kern River Intertie		891					
			242.85	KCWA Buena Vista WSD - 7	0						
				KCWA Buena Vista WSD - 5	0						
			243.09	Kern County Water Agency Buena Vista - 3	891						
			Check No. 29	244.54	Buena Vista WSD						
	30		249.85	Kern County Water Agency Buena Vista - 4	1,356	1,356					
				K.C.W.A. Reach 13B Subtotal:	2,247						
			Buena Vista PP	250.99							
14A	31		254.47	Kern County Water Agency West Kern - 2	0	261					
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	261						

**Table 22c. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries								
	Beginning and Ending				Entitle-ment	1995 Ent. CY-OV	Interup-table Ent.	Transfer	Pump-back	1995 Water Bank			
	No.	Structure	Mile										
14A	31	Check No. 31	256.14		566	566							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	566								
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,438	1,438							
				KCWA Reach 14A Subtotal:	2,265	2,265	0	0	0	0			
		Check No. 32	261.72										
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,827	3,827							
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	650		650						
			267.36										
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	4,470	4,470							
				KCWA Reach 14B Total:	8,947	8,947	0	0	0	0			
14C		Check No. 34	271.27										
	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	3,155	3,155							
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,687		1,687						
				KCWA Reach 14C Total:	4,842		0	0	0				
		John R. Teerink PP	278.13		106,469								
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	710	710							
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	4,920		4,920						
				KCWA Reach 15A Total:	5,630		0	0	0				
16A	37		Ira J. Chrisman PP	280.36	99,875								
				Kern County Water Agency Wheeler Ridge-Maricopa - 11	0								
			Check No. 37	283.95									
	38			Kern County Water Agency Wheeler Ridge-Maricopa - 12	0	473							
				Kern County Water Agency Wheeler Ridge-Maricopa - 13A	473								
				Kern County Water Agency Wheeler Ridge-Maricopa - 13	0								
				Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0								
			Check No. 38	287.09									
	39	Check No. 39	290.21										
	40			Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,337	1,337							
				Kern County Water Agency Wheeler Ridge-Maricopa - 15	476		476						
				Kern County Water Agency TC-15	488								
				KCWA Reach 16A Subtotal:	2,774		488	0	0	0			
			Edmonston PP	293.45	95,273			0	0	0	0		

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitle-ment	1995 CY-OV	Interup-table Ent.	Trans.	Pump-back	
	No.	Structure	Mile							
31A	C-1	Coastal Branch Control	0.02			16,458				
		Las Perillas PP	1.16			16,458				
	C-2		3.79	Green Valley Water District		0				
		Badger Hill PP	4.27			16,844				
	C-3	Coastal Check No. 3	7.21							
	C-4		9.34	Castaic Lake W.A. (Devil's Den W.D. #1)		853				
		Coastal Check No. 4	9.34							
	C-5	Coastal Check No. 5	12.20							
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3		1,242				
			14.83	Kern County Water Agency Berrenda Mesa - DD		0				
				Kern County Water Agency Berrenda Mesa - PO		13,272				
				K.C.W.A. Reach 31A Subtotal:	14,514					
				1/ K.C.W.A. Total:	115,879					

1/ Semitropic WSD is storing 12,236 AF of this amount for MWD.

**Table 24: Southern Field Division Plant Data**

(in acre-feet)

**May 1996**

Date	West Branch						East Branch			
	Oso Pumping Plant	Warne Powerplant	Castaic Powerplant			Alamo Powerplant	Pearblossom Pumping Plant		Devil Canyon Generation	
			Generation		Pumpback		Bypass	Generation		
			Total	SWP 1/						
1	1,057	1,189	3,885	858	1,042	0	2,718	2,498	2,492	
2	1,569	1,658	2,378	858	1,006	8	1,743	1,834	2,326	
3	1,516	1,444	4,059	858	1,368	0	1,908	1,738	1,893	
4	1,092	0	347	858	2,312	0	1,798	1,654	1,534	
5	0	0	510	858	1,487	0	2,009	1,854	1,530	
6	138	1,328	3,995	857	1,295	0	2,211	1,700	1,645	
7	1,452	1,214	2,026	858	2,035	0	1,901	1,613	1,654	
8	1,441	1,099	3,538	858	1,241	0	1,917	1,595	1,662	
9	1,446	1,194	3,349	858	2,952	0	1,789	1,613	1,668	
10	967	1,001	3,643	858	2,012	0	1,615	1,505	1,626	
11	426	0	5,356	858	2,255	0	2,416	1,742	1,599	
12	0	0	5,602	858	4,904	0	2,407	1,788	1,642	
13	213	1,001	6,149	857	3,026	0	2,403	2,006	2,089	
14	1,492	1,197	4,475	858	3,647	0	2,610	2,410	2,180	
15	1,299	1,113	2,874	858	4,093	0	2,506	2,119	2,157	
16	1,227	1,169	2,808	858	3,044	0	2,505	2,131	2,109	
17	1,318	1,229	1,409	858	2,941	0	1,995	1,723	2,112	
18	757	0	1,807	858	2,329	0	2,257	2,132	2,083	
19	0	0	111	858	2,790	0	2,645	2,422	2,190	
20	323	896	4,272	857	1,074	0	2,688	2,269	2,062	
21	1,309	1,473	4,947	858	2,146	0	1,869	1,695	2,031	
22	1,119	1,167	3,868	858	2,118	0	1,889	1,776	2,235	
23	1,333	1,096	2,269	858	2,667	15	2,227	2,031	2,131	
24	1,066	1,161	5,965	858	1,050	0	2,576	2,142	1,924	
25	474	0	1,695	858	2,649	0	2,566	2,086	1,829	
26	125	0	1,147	858	3,408	0	2,029	1,855	1,850	
27	0	119	4,161	1,103	3,735	0	2,098	1,924	1,842	
28	1,055	1,877	6,855	1,104	2,194	0	2,024	2,007	1,702	
29	1,860	1,493	2,933	1,104	3,169	0	1,772	1,134	1,038	
30	1,923	1,512	2,428	1,104	2,969	0	1,459	1,134	1,278	
31	1,642	1,555	5,312	1,104	175	0	1,534	1,412	1,793	
TOTAL	29,639	28,185	104,173	27,824	73,133	23	66,084	57,542	57,906	

1/ Scheduled amounts of water credited to SWP in Elderberry Forebay, subject to change.

**Table 25. Pyramid Lake**

## Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

May 1996

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) Gains (+)	
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback	William E. Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek		
Apr 30	2575.52	166,719									
1	2574.21	165,054	-1,665	1,042	1,189	36	3,885	0	48	1	
2	2574.34	165,219	165	1,006	1,658	33	2,378	0	48	-106	
3	2572.49	162,885	-2,334	1,368	1,444	33	4,059	0	48	-1,072	
4	2573.93	164,700	1,815	2,312	0	33	347	0	48	-135	
5	2574.69	165,663	963	1,487	0	33	510	0	48	1	
6	2573.45	164,093	-1,570	1,295	1,328	31	3,995	0	48	-181	
7	2574.45	165,358	1,265	2,035	1,214	31	2,026	0	48	59	
8	2573.39	164,018	-1,340	1,241	1,099	31	3,538	0	48	-125	
9	2573.98	164,763	745	2,952	1,194	29	3,349	0	48	-33	
10	2573.46	164,106	-657	2,012	1,001	29	3,643	0	48	-8	
11	2570.83	160,809	-3,297	2,255	0	29	5,356	0	48	-177	
12	2570.13	159,939	-870	4,904	0	29	5,602	0	48	-153	
13	2568.05	157,372	-2,567	3,026	1,001	28	6,149	0	49	-424	
14	2568.21	157,568	196	3,647	1,197	26	4,475	0	49	-150	
15	2570.13	159,939	2,371	4,093	1,113	27	2,874	0	49	61	
16	2571.16	161,221	1,282	3,044	1,169	28	2,808	0	49	-102	
17	2573.40	164,030	2,809	2,941	1,229	29	1,409	0	49	68	
18	2573.82	164,561	531	2,329	0	27	1,807	0	49	31	
19	2575.93	167,242	2,681	2,790	0	28	111	0	49	23	
20	2574.04	164,839	-2,403	1,074	896	27	4,272	0	49	-79	
21	2572.95	163,463	-1,376	2,146	1,473	27	4,947	0	49	-26	
22	2572.44	162,822	-641	2,118	1,167	27	3,868	0	49	-36	
23	2573.54	164,207	1,385	2,667	1,096	28	2,269	0	49	-88	
24	2570.37	160,237	-3,970	1,050	1,161	27	5,965	0	49	-194	
25	2571.25	161,333	1,096	2,649	0	28	1,695	0	49	163	
26	2573.09	163,640	2,307	3,408	0	27	1,147	0	49	68	
27	2572.87	163,363	-277	3,735	119	27	4,161	0	49	52	
28	2570.45	160,337	-3,026	2,194	1,877	27	6,855	0	49	-220	
29	2571.90	162,145	1,808	3,169	1,493	27	2,933	0	49	101	
30	2573.59	164,270	2,125	2,969	1,512	26	2,428	0	49	95	
31	2570.49	160,386	-3,884	175	1,555	26	5,312	0	49	-279	
TOTAL				-6,333	73,133	28,185	894	104,173	0	1,507	-2,865

**Table 26. Elderberry Forebay**

**Daily Operation**

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) Gains (+)	
				Castaic Powerplant Generation	Natural	Pumpback To Pyramid Lake	To Castaic Lake			
					Natural		Natural	Project		
Apr 30	1515.25	21,263								
1	1514.35	20,897	-366	3,885	2	1,042	2	3,209	0	
2	1517.85	22,333	1,436	2,378	2	1,006	2	0	64	
3	1518.99	22,812	479	4,059	2	1,368	2	2,210	-2	
4	1514.56	20,982	-1,830	347	1	2,312	1	0	135	
5	1512.01	19,966	-1,016	510	1	1,487	1	0	-39	
6	1518.90	22,774	2,808	3,995	1	1,295	1	0	108	
7	1518.60	22,648	-126	2,026	1	2,035	1	0	-117	
8	1519.19	22,897	249	3,538	0	1,241	0	2,015	-33	
9	1517.73	22,283	-614	3,349	0	2,952	0	1,013	2	
10	1517.89	22,349	66	3,643	1	2,012	1	1,565	0	
11	1521.90	24,056	1,707	5,356	0	2,255	0	1,396	2	
12	1524.10	25,016	960	5,602	0	4,904	0	0	262	
13	1531.50	28,380	3,364	6,149	0	3,026	0	0	241	
14	1533.55	29,324	944	4,475	0	3,647	0	0	116	
15	1523.50	24,754	-4,570	2,874	0	4,093	0	3,352	1	
16	1522.90	24,491	-263	2,808	0	3,044	0	0	-27	
17	1517.82	22,321	-2,170	1,409	0	2,941	0	641	3	
18	1512.96	20,341	-1,980	1,807	0	2,329	0	1,456	-2	
19	1505.88	17,633	-2,708	111	1	2,790	1	0	-29	
20	1514.15	20,817	3,184	4,272	0	1,074	0	0	-14	
21	1520.95	23,647	2,830	4,947	0	2,146	0	0	29	
22	1520.66	23,523	-124	3,868	0	2,118	0	1,876	2	
23	1519.56	23,053	-470	2,269	1	2,667	1	0	-72	
24	1521.85	24,035	982	5,965	0	1,050	0	3,934	1	
25	1519.21	22,906	-1,129	1,695	0	2,649	0	0	-175	
26	1513.50	20,556	-2,350	1,147	1	3,408	1	0	-89	
27	1514.50	20,958	402	4,161	0	3,735	0	0	-24	
28	1525.62	25,691	4,733	6,855	0	2,194	0	0	72	
29	1517.64	22,246	-3,445	2,933	0	3,169	0	3,208	-1	
30	1516.05	21,588	-658	2,428	1	2,969	1	0	-117	
31	1520.65	23,520	1,932	5,312	0	175	0	3,214	9	
<b>TOTAL</b>				2,257	104,173	15	73,133	15	29,089	
									306	

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Apr 30	1508.60	309,579							
1	1509.56	311,674	2,095	2	3,209	0	843	0 -273	
2	1509.06	310,582	-1,092	2	0	0	810	0 -284	
3	1510.11	312,877	2,295	2	2,210	0	731	0 814	
4	1509.78	312,155	-722	1	0	0	803	127 207	
5	1509.45	311,433	-722	1	0	0	620	0 -103	
6	1509.17	310,822	-611	1	0	0	671	0 59	
7	1508.81	310,037	-785	1	0	0	703	0 -83	
8	1509.45	311,433	1,396	0	2,015	0	704	0 85	
9	1509.56	311,674	241	0	1,013	0	694	0 -78	
10	1509.97	312,571	897	1	1,565	0	654	0 -15	
11	1510.20	313,074	503	0	1,396	0	697	0 -196	
12	1509.90	312,417	-657	0	0	0	665	0 8	
13	1509.56	311,674	-743	0	0	0	680	0 -63	
14	1509.29	311,084	-590	0	0	0	670	0 80	
15	1510.51	313,574	2,490	0	3,352	0	722	0 -140	
16	1510.19	313,053	-521	0	0	0	659	0 138	
17	1510.26	313,206	153	0	641	0	575	0 87	
18	1510.61	313,974	768	0	1,456	0	656	0 -32	
19	1510.29	313,272	-702	1	0	0	695	0 -8	
20	1509.99	312,614	-658	0	0	0	648	0 -10	
21	1509.73	312,045	-569	0	0	0	666	0 97	
22	1510.19	313,053	1,008	0	1,876	0	701	0 -167	
23	1509.89	312,395	-658	1	0	0	704	0 45	
24	1511.36	315,623	3,228	0	3,934	0	728	0 22	
25	1511.05	314,941	-682	0	0	0	670	0 -12	
26	1510.81	314,413	-528	1	0	0	623	0 94	
27	1510.51	313,754	-659	0	0	0	554	0 -105	
28	1510.26	313,206	-548	0	0	0	573	0 25	
29	1511.35	315,601	2,395	0	3,208	4	638	0 -179	
30	1511.06	314,963	-638	1	0	5	645	0 1	
31	1512.25	317,587	2,624	0	3,214	4	263	0 -331	
TOTAL			8,008	15	29,089	13	20,665	127 -317	

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitle-ment	Rec.	1995 CA - OV Ent.	Local In	14 B M & I	
	No.	Structure	Mile							
29A	42	Oso PP	1.49	29,639						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub					
		Warne GP	14.07		28,185					
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0					
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0					
		Castaic P-G P	25.82		104,173					
29J	W4	Elderberry Forebay								
		Forebay Dam	28.12							
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	10					
		Dam	31.47							
		Castaic Lake Outlet	31.55	MWD - 78"	0					
				MWD - 132"	18,854	18,854				
				CLWA - 1T	1,516	1,516				
				Castaic Lake Water Agency	285	285				
				Ventura County Flood Control District	Stub					
				L.A. Co. Parks & Recreation	0					
				Releases to Lagoon	721					
				Reach 30 Subtotal:	20,665	20,655	10	0	0	
W6	W6	Castaic Lagoon		Recreation to Lagoon	118					
		Castaic Lagoon Outlet	31.87		0					

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

**Table 29. Silverwood Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**May 1996**

Date	Water Surface Elev. (in feet)	Storage	Storage Change	Inflow		Outflow					Computed Losses (-) Gains (+)	Las Flores Ranch Exchange 1/	
				Project	Natural Stream Inflow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Apr 30	3311.55	38,901											
1	3311.58	38,922	21	2,519	11	3	0	2,492	0	0	-14	32	
2	3311.25	38,695	-227	2,142	11	3	0	2,326	0	0	-51	32	
3	3311.65	38,970	275	2,122	10	4	0	1,893	0	0	40	31	
4	3311.20	38,661	-309	1,200	10	4	1	1,534	0	0	20	21	
5	3311.54	38,894	233	1,688	11	0	0	1,530	0	1	65	16	
6	3311.28	38,716	-178	1,444	11	0	1	1,645	0	0	13	15	
7	3310.85	38,421	-295	1,323	10	3	0	1,654	0	0	29	15	
8	3311.40	38,798	377	2,023	10	3	0	1,662	0	0	9	15	
9	3311.11	38,599	-199	1,377	10	3	0	1,668	0	0	85	15	
10	3310.73	38,340	-259	1,442	9	3	0	1,626	0	1	-80	15	
11	3311.31	38,736	396	1,884	8	3	0	1,599	0	0	106	15	
12	3311.05	38,558	-178	1,470	8	3	0	1,642	0	0	-11	15	
13	3311.09	38,568	10	2,023	8	3	0	2,089	0	0	71	15	
14	3311.57	38,915	347	2,499	7	3	0	2,180	0	0	24	14	
15	3311.25	38,695	-220	1,944	7	3	1	2,157	0	1	-9	15	
16	3311.28	38,716	21	2,122	7	3	0	2,109	0	0	4	13	
17	3310.93	38,476	-240	1,862	7	3	0	2,112	0	41	47	12	
18	3310.87	38,435	-41	2,122	7	2	0	2,083	0	77	-8	12	
19	3311.38	38,784	349	2,579	6	3	0	2,190	0	77	34	12	
20	3311.34	38,757	-27	2,142	6	2	1	2,062	0	77	-33	13	
21	3311.50	38,867	110	2,083	6	3	0	2,031	0	0	55	13	
22	3310.71	38,326	-541	1,503	6	2	0	2,235	0	0	187	9	
23	3310.72	38,333	7	1,902	6	2	1	2,131	0	0	233	7	
24	3311.16	38,633	300	2,162	7	2	0	1,924	0	1	58	11	
25	3311.15	38,627	-6	1,767	7	2	0	1,829	0	0	51	11	
26	3311.23	38,681	54	1,972	6	3	1	1,850	0	0	-70	11	
27	3311.16	38,633	-48	1,688	8	2	0	1,842	0	0	100	11	
28	3311.20	38,661	28	1,761	9	2	1	1,702	0	0	-37	10	
29	3311.46	38,839	178	1,039	9	2	0	1,038	0	1	171	8	
30	3311.52	38,880	41	1,191	9	2	0	1,278	0	0	121	8	
31	3310.79	38,380	-500	1,284	8	2	1	1,793	0	1	5	5	
<b>TOTAL</b>				-521	56,279	255	78	8	57,906	0	278	1,215	447

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**May 1996**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 1/	Computed Losses (-) Gains (+) 1/
Apr 30	1586.69	123,851				
1	1586.70	123,874	23			
2	1586.70	123,874	0			
3	1586.71	123,896	22			
4	1586.71	123,896	0			
5	1586.70	123,874	-22			
6	1586.73	123,942	68			
7	1586.67	123,805	-137			
8	1586.66	123,783	-22			
9	1586.58	123,601	-182			
10	1586.32	123,001	-600			
11	1586.17	122,672	-329			
12	1585.97	122,220	-452			
13	1585.87	121,994	-226			
14	1585.80	121,836	-158			
15	1585.83	121,903	67			
16	1585.82	121,881	-22			
17	1585.82	121,881	0			
18	1585.84	121,926	45			
19	1585.82	121,881	-45			
20	1585.82	121,881	0			
21	1585.83	121,903	22			
22	1585.82	121,881	-22			
23	1585.80	121,836	-45			
24	1585.77	121,768	-68			
25	1585.76	121,745	-23			
26	1585.77	121,768	23			
27	1585.76	121,745	-23			
28	1585.78	121,790	45			
29	1585.76	121,745	-45			
30	1585.76	121,745	0			
31	1585.76	121,745	0			
<b>TOTAL</b>			-2,106	2,186	2,389	-1,903

1/ Readings are not taken on a daily basis. End of month only.

**Table 31a. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	1995 CA - OV Ent.	Transfer 1/	Local In	1995 Water Bank	
	No.	Structure	Mile							
17E		A.D. Edmonston PP	293.45	95,273						
			298.65	Kern County Water Agency Tej.-Cas	Stub					
17F	41	Check No. 41	303.41							
18A	42	Check No. 42	304.99							
19		Alamo GP	305.73	66,107						
		Check No. 43	309.70							
	44		311.84	LADWP Connection	0	5	35			
			313.50	AVEK 245th Street West	5					
	Check No. 44		314.81							
	45		314.93	AVEK 235th Street West	35	3,223				
			315.57	Avek 225th Street West	0					
	Check No. 45		319.74							
	46		323.19	Antelope Valley-East Kern WA Fairmont	3,223	3,223				
		Check No. 46	323.84							
				Reach 19 Total:	3,263	3,263	0	0	0	
20A	47	Check No. 47	326.77			71	2,754	114		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	71					
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed					
	Check No. 48		330.82							
	49	Check No. 49	335.93							
20B	50		336.73	AVEK WA - Quartz hill (Wheeled for Palmdale WD)	35	733				
				Antelope Valley-East Kern WA	2,868					
	Check No. 50		341.51							
	51	Check No. 51	342.07							
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use					
		Check No. 52	343.74							
	53		346.98	PWD Palmdale	733					
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	0					
21	54	Check No. 54	350.25			80				
	55	Check No. 55	352.70							
	56	Check No. 56	354.76							
			354.97	Littlerock Creek I.D.	80					
22A	57	Check No. 57	356.93			144				
	58		357.72	Antelope Valley-East Kern WA 96th Street East	144					
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	474					

1/ Transferred from Mojave Water Agency to A.V.E.K.

**Table 31b. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**May 1996**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Entitlement	CLWA 1T	Purchase Rec.	Pool A	Local Out	14 B M & I	
	No.	Structure	Mile								
22B	58	Pearblossom PP	360.61			57,542					
	59	Check No. 59	366.09								
	60	Check No. 60	373.94								
	61	Check No. 61	379.00								
	62	Check No. 62	384.26								
	63	Check No. 63	389.50								
	64	Check No. 64	395.10								
	65	Check No. 65	400.32								
	66		401.10	Mojave Water Agency							
				Morongo 24" and 42"	11						
23	Check No. 66		403.41	Mojave Water Agency							
				Hesperia	0						
24	67	Mojave Siphon	405.48	Las Flores Ranch	447					447	
25				Crestline Lake Arrowhead Water Agency	78					78	
26A		Silverwood Lake	407.65	Calif. State Park	8						
				Silverwood Agency (Rec.)							
		San Bernardino Tunnel	411.46		57,906						
				San Gorgonio Pass Water Agency	0						
		Devil Canyon GP	412.73		57,906						
				MWD-SC Rialto	0						
28G 28H 28J	68	Devil Canyon Afterbay Control Structures	412.88	Desert Water Agency (MWD Wheeling Exchange)	35,479					35,479	
				San Gabriel Valley Water District	1,420					21,511	
				Coachella Valley W.D. (MWD Wheeling Exchange)	21,511						
				San Bernardino Valley Water District	208						
				MWD (SBVMWD Exchange)	0						
	69	Santa Ana Valley Pipeline	425.46								
			433.06	MWD-SC Box Springs	0						
			440.05	MWD-SC Perris Bypass Pipeline	0						
		Lake Perris	442.00	MWD-SC 18"	0						
			443.44	MWD-SC 54"	0						
				MWD-SC 78"	1,003						
				Calif. State Park Lake Perris Recreation	51						
				MWD Total:	76,847	19,857	0	0	56,990	0 0	

**Table 32. Water Quality At Selected SWP Locations**

**May 1996**

Constituent	Units	Thermalito	North Bay	Harvey	Delta	Governor Edmund G. Brown				Devil Canyon Afterbay Near San Bernardino	
		Afterbay	Aqueduct	O. Banks	Mendota	California Aqueduct					
		At Outlet	Barker Slough	Delta	Canal At McCabe Rd.	O'Neill FB Outlet (Check 13)	Kettleman (Check 21)	Near Hwy 119 (Check 29)	Tehachpi Afterbay (Check 41)		
Alkalinity	mg/l	36	141	50	70	74	77	79	75	66	
Arsenic	mg/l	<0.001	0.003	0.001	0.001	0.002	0.002	0.002	0.002	0.002	
Boron	mg/l	<0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Bromide	mg/l	<0.01	0.08	0.13	0.16	0.19	0.21	NR	0.20	0.16	
Calcium	mg/l	7	23	17	20	21	21	21	21	19	
Carbon - Total Organic	mg/l	NR	5	3	3	4	4	NR	4	4	
Chloride	mg/l	1	28	47	54	66	70	70	70	56	
Chromium	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Copper	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Flouride	mg/l	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Hardness	mg/l	30	152	84	100	106	110	110	107	94	
Iron	mg/l	0.012	<0.005	0.006	<0.005	0.006	0.010	<0.005	<0.005	0.013	
Lead	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Magnesium	mg/l	3	23	10	12	13	14	14	13	11	
Manganese	mg/l	<0.006	0.016	0.029	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	
Nitrate + Nitrite	mg/l	<0.01	0.40	0.76	NR	NR	NR	NR	0.39	0.24	
Phosphorus-Ortho	mg/l	<0.01	0.09	0.10	NR	NR	NR	NR	0.10	0.04	
Phosphorus-Total	mg/l	0.01	0.16	0.12	NR	NR	NR	NR	0.18	0.09	
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Sodium	mg/l	4	36	39	45	50	52	51	49	44	
Specific Conductance	µS/cm	78	445	370	422	464	478	479	470	416	
Sulfate	mg/l	2	45	51	55	47	46	45	44	46	
Total Dissolved Solids	mg/l	45	258	206	234	256	265	265	292	238	
Trihalomethane Formation Potential	µg/l	NR	498	323	376	405	416	NR	453	440	
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005	

µg/l = micrograms per liter

µS/cm = microSiemens per centimeter

NR = Not Reported

**Table 33. Water Quality At Selected Delta Stations**

**May 1996**

Date	Tides		Flow In CFS			Electrical Conductivity in milliSiemens							Cl in mg/l			
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island		Emmaton		Jersey Point	Clifton Court	Cache Slough	Contra Costa Canal Intake	Delta Mendota Canal	
	Hl	HALF	md	30dm	md	md	md	28dm	md	14dm	md	14dm	md	md	md	
1	2.89	0.95	33467f	42838	23391	0.19	0.4	0.00	0.17	0.15	0.22	0.21	0.27	87	87	57
2	3.11	1.05	32408f	42463	22604	0.19	0.56	0.00	0.17	0.16	0.22	0.21	0.27	86	81	57
3	3.26	1.11	31277f	41860	21667	0.2	0.46	0.00	0.16	0.16	0.22	0.21	0.26	79	70	55
4	N.R.	N.R.	30773b	41067	21454	0.22	N.R.	0.00	0.16	0.16	0.23	0.21	0.27	74	65	56
5	N.R.	N.R.	32244b	40304	22608	0.21	N.R.	0.00	0.16	0.16	0.22	0.22	0.27	N.R.	67	N.R.
6	3.41	1.26	32290b	39666	22765	0.14	0.35	0.00	0.16	0.16	0.23	0.22	0.31	66	69	57
7	3.40	1.52	31096f	39187	21614	N.R.	0.31	0.00	0.16	0.16	0.22	0.22	0.32	67	67	54
8	3.09	1.21	28223f	38698	19192	N.R.	0.26	0.00	0.16	0.16	0.22	0.22	0.31	68	67	52
9	2.68	1.01	25911f	38173	17329	N.R.	0.23	0.00	0.16	0.16	0.22	0.22	0.32	70	75	53
10	2.29	0.76	24387f	37633	16140	N.R.	0.21	0.00	0.16	0.16	0.23	0.22	0.34	70	80	49
11	2.58	0.70	23033f	37118	14905	N.R.	0.21	0.00	0.16	0.16	0.22	0.22	0.35	79	79	33
12	2.97	0.91	21866f	36632	13837	N.R.	0.28	0.00	0.16	0.16	0.22	0.22	0.36	78	73	32
13	3.04	1.01	21825f	36223	13630	N.R.	0.37	0.00	0.16	0.16	0.22	0.22	0.38	77	69	33e
14	3.13	1.09	22105f	35860	13951	N.R.	0.50	0.00	0.16	0.16	0.22	0.22	0.41	75	69	33e
15	3.39	1.23	22312f	35273	14245	0.20	0.58	0.00	0.17	0.16	0.22	0.22	0.40	72	65	36
16	3.73	1.61	31556f	34990	18145	0.21	0.75	0.00	0.17	0.16	0.24	0.22	0.39	29	63	41
17	3.74	1.79	44220f	35056	25054	0.20	0.5	0.00	0.16	0.16	0.24	0.22	0.34	31	57	40
18	3.97	1.86	75769f	36047	53335	0.19	0.22	0.00	0.13	0.16	0.24	0.22	0.26	45	59	34
19	3.63	1.71	87450f	37303	63358	0.2	0.16	0.00	N.R.	0.16	0.24	0.23	0.24	64	59	29
20	3.44	1.67	99294f	38884	73381	0.18	0.14	0.00	N.R.	0.16	0.22	0.22	0.20	79	61	23
21	3.11	1.60	84852f	39953	69136	0.17	0.13	0.00	N.R.	N.R.	0.20	0.22	0.16	88	59	19
22	2.82	1.28	79419f	40905	65513	0.13	0.13	0.00	0.11	N.R.	0.19	0.22	N.R.	100	61	16
23	2.15	1.05	74964f	41826	61293	0.17	0.12	0.00	0.12	N.R.	0.19	0.22	0.19	100	63	14
24	2.31	1.00	71351f	42736	58044	0.16	0.13	0.00	0.12	N.R.	0.19	0.22	0.21	N.R.	71	12
25	N.R.	N.R.	74964f	43846	56753	N.R.	N.R.	0.00	0.11e	N.R.	0.18	0.21	0.23	N.R.	71	N.R.
26	2.97	1.45	67524f	44804	56631	0.15	0.12	0.00	0.11	N.R.	0.17	0.21	0.19	N.R.	65	N.R.
27	2.93	1.09	60214f	45612	50648	0.15	0.11	0.00	0.11	N.R.	0.17	0.21	0.21	N.R.	65	14
28	2.93	1.06	55780f	46298	47493	0.16	0.11	0.00	0.12	N.R.	0.16	0.20	0.26	N.R.	61	N.R.
29	3.19	1.18	48581f	46768	41448	0.16	0.12	0.00	0.13	N.R.	0.16	0.20	0.26	90	57	22
30	3.29	N.R.	43383f	47084	37578	0.16	N.R.	0.00	0.13	N.R.	0.16	0.19	0.26	89	56	22
31	3.44	N.R.	38174f	47241	34297	0.16	N.R.	0.00	0.12	N.R.	0.16	0.19	0.27	89	51	27

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

c = Excess Delta conditions.

s = Balanced water conditions with storage withdrawals.

b = Balanced water conditions with no storage withdrawals.

f = Excess Delta conditions with fish concerns.

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In The SWP 1/**

**May 1996**

Sampling Location	Sample Date	Chemical Detected	Concentration µg/l
North Bay Aqueduct At Barker Slough Pumping Plant	March 20, 1996	Diuron Chlorpyrifos Simazine 1,1,1-Trichloroethane Dacthal	0.26 0.02 0.22 2.50 0.05
California Aqueduct At Harvey O. Banks Delta Pumping Plant	March 20, 1996	Diuron Simazine Dacthal	0.18 0.07 0.05
Delta Mendota Canal At McCabe Road	March 20, 1996	Diuron Simazine Dacthal	0.13 0.06 0.04
California Aqueduct Near Kettleman City (Check 21)	March 20, 1996	Diuron Simazine Diazinon Cyanazine Dacthal	0.61 0.16 0.04 0.14 0.07
California Aqueduct At Tehachapi Afterbay (Check 41)	March 20, 1996	Diuron Simazine Diazinon Cyanazine Dacthal	1.78 0.38 0.03 0.19 0.06
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March 20, 1996	Simazine Diazinon Dacthal	0.08 0.02 0.06

1/ These locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)	May 1996							
Date	Oroville Thermalito Complex		Barker Slough Load	Cordelia Load	Banks Total Load	Banks SWP Load	South Bay Load	Del Valle Load
	Generation	Load						
1	11,060,640	0	20,265	19,005	415,872	415,872	254,262	185
2	8,836,992	0	25,389	26,880	415,008	415,008	264,794	214
3	12,675,456	0	30,324	24,717	337,536	337,536	295,752	218
4	11,751,840	288	30,625	22,890	337,536	337,536	265,760	210
5	3,153,024	6,624	31,941	25,368	337,824	337,824	301,738	205
6	8,930,304	2,304	29,309	23,541	338,976	338,976	280,746	226
7	9,829,152	0	33,096	32,053	338,688	338,688	319,352	282
8	10,241,280	2,016	29,925	27,062	345,888	345,888	353,252	294
9	9,546,048	2,304	32,879	29,568	371,520	371,520	325,674	296
10	10,508,544	9,216	31,682	27,363	354,816	354,816	304,508	304
11	4,918,176	741,600	34,594	29,505	339,264	339,264	290,930	303
12	2,281,824	1,154,016	34,454	27,797	340,128	340,128	289,788	310
13	8,949,888	694,656	34,440	29,484	888,192	888,192	272,428	311
14	9,400,320	772,704	36,036	29,246	422,496	422,496	299,048	294
15	6,733,440	571,104	33,691	28,329	349,056	349,056	287,140	266
16	8,098,848	554,688	29,323	29,064	1,303,488	943,488	267,068	250
17	13,107,456	0	21,763	22,400	1,303,200	367,200	248,236	235
18	21,432,672	0	19,201	20,790	1,302,048	654,048	233,856	241
19	21,348,000	0	21,539	22,974	1,300,320	652,320	241,008	247
20	19,293,120	0	25,298	24,661	1,516,032	868,032	214,568	247
21	14,041,440	0	26,285	25,585	2,365,920	2,365,920	194,926	219
22	9,617,472	0	24,178	24,528	2,378,016	2,378,016	194,400	187
23	18,489,888	0	27,580	24,899	2,378,880	2,378,880	210,362	212
24	18,480,960	0	28,812	29,631	2,379,168	2,379,168	217,526	241
25	17,658,432	0	31,661	27,475	2,367,072	2,367,072	198,430	257
26	15,499,008	0	32,319	28,056	3,358,080	3,358,080	212,556	231
27	13,451,616	0	29,323	24,892	3,432,960	3,432,960	200,388	195
28	18,045,504	0	30,919	27,713	3,430,080	3,430,080	192,868	188
29	14,908,896	0	31,857	29,554	3,355,776	3,355,776	238,030	176
30	14,793,984	0	30,422	25,991	3,423,456	3,423,456	251,308	169
31	17,478,144	0	31,766	29,330	3,430,080	3,430,080	271,890	195
Total	384,562,368	4,511,520	910,896	820,351	44,957,376	41,717,376	7,992,592	7,408

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**May 1996**

Date	Dos Amigos Pumping Plant		William R. Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,714,464	1,183,464	3,249,216	3,249,216	8,064	8,064
2	1,679,472	1,148,472	2,253,600	2,253,600	12,096	12,096
3	1,670,256	1,052,256	4,128,192	4,128,192	5,472	5,472
4	1,627,344	1,009,344	4,212,000	2,187,000	5,472	5,472
5	1,379,808	761,808	2,368,800	1,693,800	3,168	3,168
6	1,337,184	719,184	3,654,720	1,635,720	6,336	6,336
7	1,457,712	839,712	3,231,072	1,431,072	7,776	7,776
8	1,591,776	961,776	3,203,424	1,443,424	7,776	7,776
9	1,778,544	1,064,544	3,873,024	1,953,024	7,200	7,200
10	1,728,000	1,014,000	4,203,360	1,835,360	7,776	7,776
11	1,765,008	1,051,008	3,901,536	1,706,536	9,216	9,216
12	1,523,088	809,088	2,113,056	1,273,056	12,096	12,096
13	1,494,576	780,576	4,705,056	1,969,056	4,608	4,608
14	1,624,752	910,752	3,783,168	1,263,168	9,216	9,216
15	1,795,680	1,081,680	4,104,288	1,668,288	7,776	7,776
16	1,818,288	1,104,288	3,672,000	1,236,000	9,216	9,216
17	1,702,512	988,512	3,367,872	2,107,872	6,912	6,912
18	1,604,448	890,448	1,293,408	873,408	9,504	9,504
19	1,483,488	769,488	895,680	895,680	986,976	986,976
20	1,430,928	716,928	1,945,152	1,189,152	24,192	24,192
21	1,845,936	1,131,936	861,696	861,696	2,227,680	847,680
22	1,693,296	1,129,296	1,163,232	1,163,232	1,478,304	1,478,304
23	1,823,904	1,259,904	0	0	1,088,352	1,088,352
24	1,845,648	1,137,648	0	0	389,952	18,952
25	1,677,312	969,312	0	0	1,197,216	9,216
26	1,584,288	876,288	1,151,712	31,712	2,707,200	1,203,200
27	1,640,592	932,592	0	0	3,368,160	1,580,160
28	1,895,904	1,187,904	0	0	1,643,616	515,616
29	2,180,016	1,472,016	1,454,976	854,976	753,696	753,696
30	2,239,344	1,531,344	1,066,176	466,176	9,504	9,504
31	2,199,600	1,491,600	1,314,432	114,432	11,520	11,520
Total	52,833,168	31,977,168	71,170,848	39,484,848	16,026,048	8,667,048

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Energy Data**

(in kWh)

**May 1996**

Date	Las Perillas Load	Badger Hill Load	Buena Vista Load	John R. Teerink Load	Ira J. Chrisman Load	A.D. Edmonston Load
1	44,878	124,320	1,178,784	1,107,576	2,374,848	8,529,840
2	41,854	115,736	973,008	959,040	2,055,744	7,463,520
3	29,644	80,104	1,043,496	1,024,848	2,288,448	7,812,000
4	18,282	47,680	863,280	820,368	1,796,256	6,469,200
5	15,350	38,944	610,848	593,856	1,334,016	4,489,200
6	17,144	43,040	678,960	706,320	1,521,792	5,330,160
7	30,224	79,064	967,608	955,152	2,127,744	7,537,680
8	40,044	106,872	978,912	954,864	2,123,136	7,536,240
9	42,012	112,680	991,440	951,120	2,083,968	7,233,120
10	41,264	109,992	756,000	726,984	1,578,240	5,782,320
11	41,188	109,672	939,672	844,992	1,816,992	6,390,000
12	34,070	93,504	773,424	729,648	1,582,848	5,482,800
13	38,954	106,576	746,496	768,888	1,708,992	6,009,840
14	36,248	100,008	1,140,336	1,135,728	2,473,344	8,857,440
15	34,182	91,032	1,114,992	1,104,840	2,407,968	8,516,880
16	38,076	102,992	1,132,272	1,090,728	2,356,992	8,349,120
17	43,324	117,392	978,264	969,624	2,077,056	7,456,320
18	40,770	107,328	888,336	902,304	1,945,152	6,816,240
19	39,100	103,512	795,456	776,376	1,721,952	5,998,320
20	39,334	104,840	840,960	820,008	1,792,224	6,575,040
21	42,784	116,320	1,004,328	967,248	2,037,600	7,224,480
22	47,288	132,944	956,376	922,464	1,963,872	6,948,720
23	46,108	127,008	1,042,776	1,081,440	2,306,880	7,966,800
24	47,646	127,456	1,155,240	1,080,216	2,299,680	8,144,640
25	44,430	121,048	939,096	911,376	1,915,488	6,821,280
26	29,862	82,072	705,168	646,200	1,387,872	4,888,800
27	38,546	106,592	716,328	678,528	1,415,520	4,830,480
28	46,268	128,776	973,008	920,160	2,011,968	7,131,600
29	47,800	129,872	1,102,752	1,092,384	2,379,168	8,092,800
30	49,726	132,544	1,046,016	933,120	2,069,568	7,538,400
31	50,852	139,672	994,248	942,840	2,060,640	7,179,120
TOTAL	1,197,252	3,239,592	29,027,880	28,119,240	61,015,968	215,402,400

**Table 38. Southern Field Division Energy Data**

(in kWh)

**May 1996**

Date	West Branch			East Branch		
	Oso Load	William E. Warne Generation	Castaic SWP Generation	Alamo Generation	Pearblossom Load	Devil Canyon Generation
1	281,624	722,088	840,000	322,952	1,682,256	2,945,280
2	412,216	990,504	840,000	214,088	1,234,308	2,764,896
3	424,760	875,448	840,000	232,484	1,157,316	2,286,528
4	293,272	0	840,000	217,000	1,106,124	1,867,872
5	6,608	0	840,000	248,360	1,250,772	1,871,232
6	41,384	800,208	840,000	270,480	1,141,932	2,011,392
7	384,328	723,600	840,000	230,076	1,083,576	1,996,992
8	381,528	672,408	840,000	230,804	1,074,072	2,019,456
9	383,992	724,752	840,000	214,676	1,085,688	2,033,760
10	258,832	605,448	840,000	193,340	1,011,864	1,974,240
11	117,376	0	840,000	294,056	1,165,416	1,951,584
12	6,664	0	840,000	295,204	1,197,852	2,001,408
13	60,760	634,104	840,000	292,768	1,342,008	2,508,384
14	340,480	705,240	840,000	319,060	1,620,336	2,602,752
15	348,880	694,512	840,000	296,296	1,427,712	2,572,320
16	327,376	687,672	840,000	295,596	1,440,444	2,526,336
17	349,720	697,032	840,000	234,556	1,165,344	2,529,984
18	203,672	0	840,000	277,256	1,438,500	2,495,136
19	6,832	0	840,000	322,000	1,636,608	2,612,256
20	88,872	536,040	840,000	316,652	1,526,532	2,457,984
21	348,320	845,352	840,000	229,852	1,146,576	2,421,216
22	298,088	687,384	840,000	228,368	1,201,272	2,649,216
23	353,472	644,400	840,000	272,636	1,377,012	2,571,648
24	285,264	685,872	840,000	309,820	1,450,344	2,316,768
25	132,944	0	840,000	301,812	1,410,324	2,218,944
26	39,088	0	840,000	252,000	1,252,128	2,256,768
27	6,944	75,672	1,080,000	255,416	1,296,456	2,251,296
28	282,744	1,099,728	1,080,000	238,784	1,356,864	2,073,024
29	494,032	875,304	1,080,000	216,692	770,172	1,270,464
30	510,832	956,232	1,080,000	174,972	769,056	1,557,888
31	431,928	957,456	1,080,000	185,276	960,288	2,142,432
Total	7,902,832	16,896,456	27,240,000	7,983,332	38,779,152	69,759,456